Effect of integrated nutrient management (INM) on yield and economics of sweet potato (*Ipomoea batatas* L.)

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ABSTRACT

A field experiment was conducted during 2009-10 and 2010-11 at Regional Horticulture Research and Extension Center (RHREC), Dharwad (Karnataka) to study the effect of organic manures in combination with inorganic fertilizers on the productivity and economic feasibility in sweet potato. Pooled data of 2 years revealed that, among organics, application of FYM @ 10 tones ha$^{-1}$ + 50:25:50 kg NPK ha$^{-1}$ recorded significantly higher tuber yield per plot and hectare (24.16 kg and 33.55 tones ha$^{-1}$, respectively), and was at par with FYM @ 20 tones ha$^{-1}$. While significantly the lowest yield per hectare (21.34 t ha$^{-1}$) was noticed in sweet potato due to T$_4$ (PM @ 5 t ha$^{-1}$). Higher gross returns (Rs. 18658.7/ha), net returns (Rs.67100/ha) and B:C ratio (3.6) were realized with application of FYM @ 10 tones ha$^{-1}$+ 50:25:50 kg NPK ha$^{-1}$.

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